

Title (en)
PROCESS FOR OPTIMIZATION OF CURE SETTINGS IN THE PRINTING OF IMAGES ON TRANSPARENT AND SEMI-TRANSPARENT MEDIA

Title (de)
VERFAHREN ZUR OPTIMIERUNG VON HÄRTUNGSEINSTELLUNGEN BEIM DRUCKEN VON BILDERN AUF TRANSPARENTEN UND HALBTRANSPARENTEN MEDIEN

Title (fr)
PROCÉDÉ D'OPTIMISATION DE PARAMÈTRES DE DURCISSEMENT DANS L'IMPRESSION D'IMAGES SUR DES SUPPORTS TRANSPARENTS ET SEMI-TRANSPARENTS

Publication
EP 4100173 A1 20221214 (EN)

Application
EP 21928356 A 20210726

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- US 202163181740 P 20210429
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- US 2021043160 W 20210726

Abstract (en)
[origin: US11312158B1] A printing and partial curing process for 3D objects that avoids print fouling due to scattered UV light. The process uses the steps of expressing an image from an inkjet printing head onto the surface of a rotating piece of transparent media, rotating the media surface along a single rotational axis away from the inkjet printing head to allow full wetting of an expressed image onto the media surface, and further rotating the media surface so that the expressed image enters a shaped ultraviolet illumination beam field that causes the partial curing of the image so that said image is held in place on the surface during continued rotation as additional ink is applied to the surface. The partial curing or "pinning" lamp is precisely positioned so that ultraviolet beam field avoids impinging on the inkjet print heads so that fouling does not occur.

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